

45146



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO ATTENTION OF:

NOV 09 1990

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Linda Szempruch Aylward
Senior Associate Attorney
Sundstrand Corporation
Corporate Offices
4949 Harrison Avenue
P.O. Box 7003
Rockford, Illinois 61125-7003

RE: Southeast Rockford Groundwater Site
General Notice of Potential Liability

Dear Ms. Aylward:

The United States Environmental Protection Agency (U.S. EPA) has documented the release or threatened release of hazardous substances, pollutants and contaminants at the above referenced Site, and has spent public funds to control and investigate these releases. U.S. EPA is also planning to spend additional public funds to further control these releases. This action will be taken by U.S. EPA pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. 9601 et seq., (CERCLA) as amended by the Superfund Amendments and Reauthorization Act of 1986, Pub. L. No. 99-499, stat. 1613 (1986) (SARA), unless U.S. EPA determines that such action will be done properly by a responsible party. Responsible parties under CERCLA include the current and former owners and operators, and persons who generated the hazardous substances or were involved in transport, treatment, or disposal of hazardous substances which came to be located at the Site. Under Section 107(a) of CERCLA, where the Agency uses public funds to achieve the cleanup of the hazardous substances, responsible parties are liable for all costs associated with the response action and all other necessary costs incurred in cleaning up the Site, including investigation, planning and enforcement.

The U.S. EPA has conducted an emergency removal action, in which it provided an alternate drinking water source for residents of the Site by extending the City of Rockford municipal water supply system and connecting households with residential wells showing groundwater contamination in excess of Removal Action Levels (RALs), or whose location posed a potential threat, to that system. U.S. EPA is now evaluating a further extension of the City of Rockford municipal water supply system, to hook-up to that system households with groundwater contamination in excess of Maximum Contaminant Levels (MCLs), or whose location poses a potential risk. In addition, U.S. EPA may, pursuant to its authorities under CERCLA and other laws, decide that other activities are necessary to protect public health, welfare and the environment.

U.S. EPA has received information that your company may have generated or transported hazardous substances that came to be located in the Site. By this letter, U.S. EPA notifies Sundstrand Corporation of its potential liability with regard to this matter and encourages it, as a potentially responsible party, to reimburse U.S. EPA for costs incurred to date and to voluntarily perform or finance the response activities that U.S. EPA has determined or will determine are required at the Site.

Enclosed is a proposed administrative order by consent ("AOC"), pursuant to section 106 of CERCLA, by which your client would agree to undertake the response actions determined by U.S. EPA to be necessary at the Site. In addition, by signing the AOC your client would agree to reimburse the United States for its costs of overseeing the response actions performed under this Order and the costs which the United States has already incurred at said site which exceed \$2 million. It should be noted, however, that the reimbursement provisions of the AOC are subject to public comment pursuant to section 122(i) of CERCLA.

You should notify U.S. EPA in writing within ten (10) days of receipt of this letter of your willingness to perform or finance the activities described above. We would like to schedule a meeting with both legal and technical representatives of Sundstrand during the week of November 26, 1990, to discuss the attached AOC. If U.S. EPA does not receive a timely response, U.S. EPA will assume that Sundstrand Corporation does not wish to negotiate a resolution of its potential responsibility in connection with the Site and that Sundstrand Corporation has declined any involvement in performing the response activities.

Your letter should indicate the appropriate name, address, and telephone number for further contact with Sundstrand Corporation.

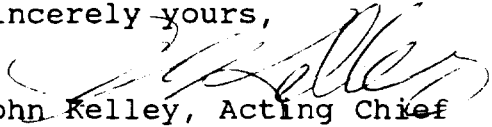
If you are already involved in discussions with state or local authorities, engaged in voluntary cleanup action or involved in a lawsuit regarding this Site, you should continue such activities as you see fit. This letter is not intended to advise you or direct you to restrict or discontinue any such activities; however, you are advised to report the status of those discussions or actions in your response to this letter and to provide a copy of your response to any other parties involved in those discussions or actions. Your response should be sent to:

Karen Vendl
U.S. EPA - Region V (5HS-11)
230 South Dearborn Street
Chicago, Illinois 60604

If you need further information regarding this letter, you may contact either Ms. Vendl at (312) 886-4739 or Elizabeth Doyle, of the Office of Regional Counsel at, (312) 886-7951.

Due to the nature of the problem at this site and the attendant legal ramifications, U.S. EPA strongly encourages you to submit a written response within the time frame specified herein. We hope you will give this matter your immediate attention.

Sincerely yours,


John Kelley, Acting Chief
Remedial and Enforcement Response Branch

cc: William Child, Director
Division of Land Pollution Control
Illinois Environmental Protection Agency
2200 Churchill Road
P.O. Box 19276
Springfield, Illinois 62794-9276

bcc: T. Pernell, ORC (5CS-TUB-3)
E. Doyle, ORC (5CS-TUB-4)
K. Theisen, OSC (5HS-12)
K. Vendl, RPM (5HS-11)
T. Audia, SFAS (5MFS-14)
Oliver Warnsley, RP-CRU (5HS-TUB-7)
Toni Lesser, Public Affairs (5PA-14), w/o attachments
Sheila Huff, Department of Interior

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

IN THE MATTER OF:	)	Docket No.
)	
SOUTHEAST ROCKFCRD	)	ADMINISTRATIVE ORDER BY
GROUNDWATER SITE	)	CONSENT PURSUANT TO
	)	SECTION 106 OF THE
	)	COMPREHENSIVE
Respondents:	)	ENVIRONMENTAL RESPONSE,
	)	COMPENSATION, AND
Sundstrand Corporation	)	LIABILITY ACT OF 1980
	)	as amended, 42 U.S.C.
	)	Section 9606(a)
)	

PREAMBLE

The United States Environmental Protection Agency (U.S. EPA) and the Respondent(s) have each agreed to the making and entry of this Order by Consent.

It is issued pursuant to the authority vested in the President of the United States by Sections 106(a) and 122 of the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. Section 9606(a), as amended by the Superfund Amendments and Reauthorization Act of 1986 Pub. L. 99-499 (CERCLA), and delegated to the Administrator of the U.S. EPA by Executive Order No. 12580, January 23, 1987, 52 Federal Register 2923, and further delegated to the Assistant Administrator for Solid Waste and Emergency Response and the Regional Administrators by U.S. EPA Delegation Nos. 14-14, 14-14-C and 14-14-D, and to the Director, Waste Management Division, Region V, by Regional Delegation Nos. 14-14-A, 14-14-C and 14-14-D.

A copy of this Order will also be provided to the State of Illinois, which has been notified of the issuance of this Order as required by Section 106(a) of CERCLA, 42 U.S.C. Section 9606(a).

This Order requires the Respondent to undertake and complete certain response activities to abate conditions which may present an imminent and substantial endangerment to the public health or welfare or the environment because of an actual or threatened release of hazardous substances at the site.

FINDINGS

Based on available information, including the Administrative Record in this matter, U.S. EPA hereby finds:

1. The Southeast Rockford Groundwater Site (the site) is an unincorporated residential area of approximately two square miles surrounded by the City of Rockford and sitting atop a plume of contaminated groundwater.
2. The site was added to the National Priorities List by publication in the Federal Register, on March 13, 1989.
3. Site boundaries, as identified on the National Priorities List, are as follows: Harrison Avenue to the north, Sawyer Road to the south, 21st Street to the east and 8th Street on the west.
4. Because portions of the site are not a part of the City of Rockford, certain residents lack city services, including citywater. As a consequence, certain residents obtain their drinking water from shallow residential wells.
5. In August 1989 the Emergency and Enforcement Response Branch (EERB) of the U.S. EPA sampled two residential wells within the site boundaries and found levels in excess of the Removal Action Levels (RALs) of 1,2-Dichloroethylene, a volatile organic compound (VOC). EERB initiated an emergency removal action at the Site and immediately supplied these residences with bottled drinking water.
6. On October 25, 1989, the Director of the U.S. EPA Waste Management Division signed an Action Memorandum, authorizing the expenditure of \$332,000 of Superfund money at the site. EERB completed a sampling program in conjunction with the Illinois Department of Public Health (IDPH) and, when sampling revealed residences with groundwater contamination in excess of RALs, or where contamination posed a potential threat, EERB supplied these residences with bottled drinking water. In January 1990 the residences were switched from bottled water to "point-of-use" drinking water filters.
7. Sampling has revealed the presence of the following contaminants in site groundwater: 1,1-Dichloroethane, Trichloroethylene, Cis-1,2-Dichloroethylene, Trans-1,2-Dichloroethylene, 1,1,1-Trichloroethane, 1,2 Dichloroethane.
8. On March 30, 1990, the Acting Director of the U.S. EPA Waste Management Division signed an Action Memorandum authorizing an additional \$1,626,500 to extend water supply mains and connect those residences whose wells show groundwater contamination in excess of RALs, or whose location posed a potential threat, to the City of Rockford's municipal water supply system. Construction of this project began on May 24, 1990 and is ongoing.

9. Total U.S. EPA expenditures to date for response actions at the site exceed \$2 million.
10. Respondent owns and operates plants that, incidental to its activities, produce certain hazardous substances at 4747 Harrison Avenue (hereinafter Plant 6) and 2210 Harrison (hereinafter the Suntec plant) in Rockford, Illinois. The Suntec plant is immediately north of the site and Plant 6 is east of the site.
11. A report prepared for Respondent by EDI Engineering & Science regarding the Sundstrand Corporation Plant 6, dated August 1989 and entitled "Results of Hydrogeologic Evaluation for Sundstrand Corporation, Rockford, Illinois" (Project 20557) (hereinafter the Hydrogeologic Evaluation), concludes that groundwater beneath Plant 6 flows from the east to the west, toward the Rock River.
12. Wells located east of Plant 6 were sampled by EERB on December 6, 1989 and sample results indicate that contamination is not present east of Sundstrand's property.
13. The Hydrogeologic Evaluation indicates that volatile organic compounds (VOCs) exist in the groundwater beneath Plant 6.
14. Samples taken by the Illinois Environmental Protection Agency (IEPA) as part of the remedial investigation (RI) for the Southeast Rockford Groundwater Site and by U.S. EPA during the emergency removal action showed that approximately 450 homes had VOC contamination in their private wells in excess of Maximum Contaminant Levels (MCLs).
15. Respondent submitted a workplan for investigation of groundwater conditions at and adjacent to Plant 6 to the Illinois Environmental Protection Agency in October 1989. The workplan calls for monitoring wells to be placed west of Sundstrand's western property boundary, and indicates that "if the westernmost monitoring well contains significant levels of organic compounds attributable to Sundstrand, additional upper bedrock monitoring wells may be installed further west and/or north or south of the Phase I downgradient wells." (Harding Lawson Associates workplan, Sundstrand Plant 6 Investigation, p.3, "Downgradient Monitoring Wells - Phase II.)
16. Respondent has detected VOCs in the two monitoring wells located west of Sundstrand's western property boundary, which are hydraulically downgradient of Plant 6.
17. A report prepared for Respondent by Environmental Resources Management-North Central, Inc. regarding the Suntec plant, dated January 23, 1990 and entitled "Groundwater Investigation, Suntec Industries, Inc." (Project No. 9239) (hereinafter Suntec Investigation), indicates that VOCs were present in groundwater beneath the Suntec plant.

18. The Suntec investigation also indicates that soil on Suntec plant property contains VOCs, and concludes that the most likely source of VOCs in the groundwater is VOCs in the soil.
19. On June 18, 1990, Respondent's contractor submitted to Respondent a workplan for soil remediation at the Suntec plant.

DETERMINATIONS

Based on the foregoing Findings, U.S. EPA has determined that:

1. The Southeast Rockford Groundwater Site is a "facility" as defined by Section 101(9) of CERCLA, 42 U.S.C. Section 9601(9).
2. Respondent is a "person" as defined by Section 101(21) of CERCLA, 42 U.S.C. Section 9601(21).
3. Respondent disposed of hazardous substances at its Plant 6 and the Suntec plant and these hazardous substances came to be located at the Southeast Rockford Groundwater Facility. Respondent is therefore a liable person under Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a).
4. VOCs (specifically, Trichloroethylene, 1,1,1-Trichloroethane, 1,1-Dichloroethane, Cis-1,2-Dichloroethene, 1,2-Dichloroethane, 1,1-Dichloroethene, Trans-1,2-Dichloroethene, Tetrachloroethene and Vinyl Chloride) are "hazardous substances" as defined by Section 101(14) of CERCLA, 42 U.S.C. Section 9601(14).
5. Off-site migration of VOCs from Plant 6 and the Suntec plant to the Southeast Rockford Groundwater Facility constitutes an actual or threatened "release" as that term is defined in Section 101(22) of CERCLA, 42 U.S.C. Section 9601(22).
6. The actual or threatened release of hazardous substances to the Southeast Rockford Groundwater Facility may present an imminent and substantial endangerment to the public health, welfare, or the environment.
7. The actions required by this Order, if properly performed, are consistent with the National Contingency Plan (NCP), 40 CFR Part 300, as amended, and CERCLA; and are reasonable and necessary to protect the public health, welfare and the environment because of the following factors:

- a. **actual or potential contamination of drinking water supplies or sensitive ecosystems;**

This factor is present at the Facility due to the existence of VOCs in the groundwater which serves as the drinking water supply for residents within the site.

ORDER

Based upon the foregoing Findings and Determinations, and pursuant to Section 106(a) of CERCLA, 42 U.S.C. Section 9606(a), it is hereby ordered and agreed that Respondent will undertake the following actions at the Facility:

1. Within ten (10) calendar days after the effective date of this Order, the Respondent shall submit to U.S. EPA for approval, a Work Plan for the removal activities ordered as set forth in Paragraph 4 below. The Work Plan shall provide a concise description of the activities to be conducted to comply with the requirements of this Order. The Work Plan shall be reviewed by U.S. EPA, which may approve, disapprove, require revisions, or modify the Work Plan. Respondent shall implement the Work Plan as finally approved by U.S. EPA, including any modifications. Once approved, the Work Plan shall be deemed to be incorporated into and made a fully enforceable part of this Order.
2. The Work Plan shall contain a site safety and health plan and a schedule of the work to be performed. The site safety and health plan shall be prepared in accordance with the Occupational Safety and Health Administration (OSHA) regulations applicable to Hazardous Waste Operations and Emergency Response, 29 CFR Part 1910. The Work Plan and other submitted documents shall demonstrate that the Respondent can properly conduct the actions required by this Order.
3. Respondent shall retain a contractor qualified to undertake and complete the requirements of this Order, and shall notify U.S. EPA of the name of such contractor within two (2) days of the effective date of this Order. U.S. EPA retains the right to disapprove of any, or all, of the contractors and/or subcontractors retained by the Respondent. In the event U.S. EPA disapproves of a selected contractor, Respondent shall retain a different contractor to perform the work, and such selection shall be made within two (2) business days following U.S. EPA's disapproval.
4. Respondent shall implement the Work Plan as approved or modified by U.S. EPA. Failure of the Respondent to properly implement all aspects of the Work Plan shall be deemed to be a violation of the terms of this Order. Respondent shall perform, and the Work Plan shall include, at a minimum, the following response activities:
 - a. Respondent shall submit for U.S. EPA approval design of an extension of the City of Rockford municipal water supply system to those households that, based upon sampling results found in Tables 3-10, 3-11 and 3-12 of the Remedial Investigation (RI), U.S. EPA and IEPA have identified as (1) having residential wells with groundwater VOC contamination in excess of MCLS or (2) having

residential wells potentially at risk of becoming so contaminated.

1. Within 30 calendar days of approval of the workplan, Respondent shall submit for U.S. EPA approval a 30% design completion.
 2. Such design must comply with all local laws and ordinances.
 3. Such design must ensure the proper abandonment of all private wells in households which are hooked-up to the City of Rockford municipal water system under this Order.
 4. Respondent shall ensure that the City of Rockford municipal water system has adequate capacity of potable water to serve those additional households hooked-up to the system under this Order.
 5. Respondent shall submit for U.S. EPA approval a final design by May 1, 1990.
- b. Within sixty (60) calendar days of approval of the design, Respondent shall commence construction.
- c. Respondent shall complete construction of the approved design three months after commencement of construction.

5. All materials removed from the Southeast Rockford Groundwater Facility shall be disposed of or treated at a facility approved by the Remedial Project Manager and in accordance with the Resource Conservation and Recovery Act of 1976 (RCRA), 42 U.S.C. Section 6901, et seq., as amended, the U.S. EPA Revised Off-Site Policy, and all other applicable Federal, State, and local requirements.

6. On or before the effective date of this Order, the Respondent shall designate a Project Coordinator. The U.S. EPA has designated Karen Vendl, of the Remedial and Enforcement Response Branch, as its Remedial Project Manager. The Remedial Project Manager and the Project Coordinator shall be responsible for overseeing the implementation of this Order. To the maximum extent possible, communication between the Respondent and the U.S. EPA, and all documents, reports and approvals, and all other correspondence concerning the activities relevant to this Order, shall be directed through the Remedial Project Manager and the Project Coordinator. During implementation of the Work Plan, the Remedial Project Manager and the Project Coordinator shall, whenever possible, operate by consensus, and shall attempt in good faith to resolve disputes informally through discussion of the issues.

7. The U.S. EPA and the Respondent shall each have the right to change their respective designated Remedial Project Manager or

Project Coordinator. U.S. EPA shall notify the Respondent, and Respondent shall notify U.S. EPA, as early as possible before such a change is made. Notification may initially be verbal, but shall promptly be reduced to writing.

8. The U.S. EPA Remedial Project Manager shall have the authority vested in a Remedial Project Manager by the NCP, 40 CFR Part 300, as amended, including the authority to halt, conduct, or direct any work required by this Order, or to direct any other response action undertaken by U.S. EPA or the Respondent at the Facility.

9. No extensions to the time frames shall be granted without sufficient cause. All extensions must be requested, in writing, and shall not be deemed accepted unless approved, in writing, by U.S. EPA.

10. All instructions by the U.S. EPA Remedial Project Manager or designated alternate shall be binding upon the Respondent as long as those instructions are not inconsistent with the National Contingency Plan or this Order.

11. To the extent that the Southeast Rockford Groundwater Facility or other areas where work under this Order is to be performed is owned by, or in possession of, someone other than the Respondent, Respondent shall attempt to obtain all necessary access agreements. In the event that after using their best efforts Respondent is unable to obtain such agreements, Respondent shall immediately notify U.S. EPA and U.S. EPA may then assist Respondent in gaining access, to the extent necessary to effectuate the response activities described herein, using such means as it deems appropriate. Respondent shall reimburse U.S. EPA for all attorneys' fees and court costs it incurs in assisting Respondent to obtain access.

12. Respondent shall provide access to the Facility to U.S. EPA employees, and U.S. EPA-authorized contractors, agents, and consultants at anytime, and shall permit such persons to be present and move freely in the area in order to conduct inspections, including taking photographs and videotapes of the Facility, to do cleanup/stabilization work, to take samples, to monitor the work under this Order, and to conduct other activities which the U.S. EPA determines to be necessary.

13. The provisions of this Order shall be binding on the employees, agents, contractors, successors, and assigns of the Respondent.

14. This Order shall be effective on the date of signature by the Director, Waste Management Division.

15. Respondent shall provide a written monthly progress report to the Remedial Project Manager regarding the actions and activities undertaken under this Order. At a minimum, these progress reports shall describe the actions that have been taken to comply with this Order, including all results of sampling and tests

received or prepared by the Respondent and shall describe all significant work items planned for the next month.

16. Respondent agrees to retain for six years following completion of the activities required by this Order copies of all records, files and data relating to hazardous substances found on the site, or related to the activities undertaken pursuant to this Order, whether or not those documents were created pursuant to this Order. Respondent shall acquire and retain copies of all documents relating to the site that are in the possession of their contractors, agents and employees. Respondent shall notify U.S. EPA at least sixty (60) days before any documents retained under this paragraph are to be destroyed. The documents retained under this paragraph shall be made available to the U.S. EPA upon request.

17. Respondent shall pay all past costs and oversight costs of the United States related to the Southeast Rockford Groundwater Site which are not inconsistent with the National Contingency Plan. The United States shall submit an itemized cost statement entitled "Annotated SPUR Report" to Respondent annually or, if sooner, not less than 60 days after submission of the Final Report provided for in Paragraph 21 of this Order. Payments shall be made within 60 days of Respondent's receipt of the cost statement. Payments shall be made to the U.S. EPA Hazardous Substances Superfund delivered to the U.S. EPA, Attn: Superfund Accounting, P.O. Box 70753, Chicago, Illinois 60673, in the form of a certified or cashier's check payable to "EPA Hazardous Substances Superfund." The face of the check should note that the payment is for the Southeast Rockford Groundwater Site, Superfund Site Identification Number DK. A copy of the check submitted must be sent simultaneously to the U.S. EPA representatives indicated in paragraph 18 below.

18. A notice, document, information, report, plan, approval, disapproval or other correspondence required to be submitted from one party to another under the Order shall be deemed submitted either when hand delivered or as of the date of receipt by certified mail, return receipt requested.

Submissions to the Respondent shall be submitted to:

Submissions to the U.S. EPA shall be submitted to:

Karen Vendl
Remedial Project Manager
U.S. EPA - Region V - 5HS-11
230 South Dearborn Street
Chicago, Illinois 60606

Elizabeth Doyle
Assistant Regional Counsel

U.S. EPA - Region V - 5CS-TUB-4
 230 South Dearborn Street
 Chicago, Illinois 60606

19. If any provision of this Order is deemed invalid or unenforceable, the remainder of this Order shall remain in full force and effect.

STIPULATED PENALTIES

20. Subject to the provisions of this Consent Order, for each day the Respondent fails to meet the deadlines set forth in the Consent Order and workplan, Respondent shall be liable as follows:

<u>VIOLATION</u>	<u>PAYMENT PER DAY OF VIOLATION</u>
Failure to submit 30% design completion within 30 days of approval of workplan	\$5,000
Failure to submit final design by May 1, 1990	\$5,000
Failure to implement design within 60 days of approval of design by U.S. EPA	\$5,000
Failure to complete construction within three months of implementation of design	\$5,000

21. All penalties which accrue pursuant to the requirements of this Order shall be paid within fifteen (15) calendar days of written demand by U.S. EPA. Payment shall be made to the EPA Hazardous Substances Superfund delivered to the U.S. EPA, Attn: Superfund Accounting, P.O. Box 70753, Chicago, Illinois 60673, in the form of a certified or cashier's check payable to "EPA Hazardous Substances Superfund." The face of the check should note that the payment is for the Southeast Rockford Groundwater Site.

22. Pursuant to 31 U.S.C. Section 3717, interest shall accrue on any amount of overdue stipulated penalties at a rate established by the United States Treasury. Stipulated penalties shall accrue, but need not be paid, during any dispute resolution period concerning the particular penalties at issue. If Respondent prevails upon resolution, Respondent shall pay only such penalties as the resolution requires.

23. Payment of Stipulated Penalties will not relieve Respondent from complying with the terms of this Consent Order. U.S. EPA retains the right to seek any remedies or sanctions available to

U.S. EPA by reason of Respondent's noncompliance with the provisions of this Consent Order that are not otherwise expressly limited by these Stipulated Penalty provisions.

PENALTIES FOR NONCOMPLIANCE

24. Respondent is advised pursuant to Section 106(b) of CERCLA, 42 U.S.C. Section 9606(b), that violation or subsequent failure or refusal to comply with this Order and any Work Plan approved under this Order, or any portion thereof, may subject the Respondent to a civil penalty of no more than \$25,000 per day for each day in which such violation occurs, or such failure to comply continues. In addition, failure to properly provide response action upon the terms of this Order, or other subsequent Orders issued by U.S. EPA, may result in liability for punitive damages pursuant to Section 107(c)(3) of CERCLA, 42 U.S.C. Section 9607(c)(3).

TERMINATION AND SATISFACTION

25. The Respondent shall submit a final report summarizing the actions taken to comply with this Order. The report shall contain, at a minimum: identification of the facility, a description of the locations and types of hazardous substances encountered at the facility upon the initiation of work performed under this Order, a chronology and description of the actions performed (including both the organization and implementation of response activities), a listing of the resources committed to perform the work under this Order (including financial, personnel, mechanical and technological resources), identification of all items that affected the actions performed under the Order and discussion of how all problems were resolved, a listing of residences provided with City water pursuant to the Order and a discussion of why they were connected, a discussion of the options considered to ensure sufficient capacity of potable water for these homes in the City of Rockford municipal water supply system, a listing of quantities and types of any materials removed, a discussion of removal and disposal options considered for those materials, a listing of the ultimate destination of those materials, and a presentation of the analytical results of all sampling and analyses performed and accompanying appendices containing all relevant paperwork accrued during the action (e.g., manifests, invoices, bills, contracts, permits). The final report shall also include an affidavit from a person who supervised or directed the preparation of that report. The affidavit shall certify under penalty of law that based on personal knowledge and appropriate inquiries of all other persons involved in preparation of the report, the information submitted is true, accurate and complete to the best of the affiant's knowledge and belief. The report shall be submitted within thirty (30) days of completion of the work required by the U.S. EPA.

26. The provisions of this Order shall be deemed satisfied upon payment by Respondent of all sums due under the terms of this Order and upon the Respondent's receipt of written notice from

U.S. EPA that the Respondent has demonstrated, to the satisfaction of U.S. EPA, that all of the terms of this Order, including any additional tasks consistent with this Consent Order which U.S. EPA has determined to be necessary, have been completed.

INDEMNIFICATION

27. The Respondent agrees to indemnify and save and hold harmless the United States Government, its agencies, departments, agents, and employees, from any and all claims or causes of action arising from, or on account of, acts or omissions of the Respondent, its officers, employees, receivers, trustees, agents, successors or assigns, in carrying out the activities pursuant to this Order. The United States Government shall not be held as a party to any contract entered into by the Respondent in carrying out activities under this Order.

RESERVATION OF RIGHTS

28. This Order is not intended for the benefit of any third party and may not be enforced by any third party.

29. The U.S. EPA and the Respondent reserve all rights, claims, demands, and defenses, including defenses and denials of and to all determinations and findings, that they may have as to each other except as otherwise provided in this Order pursuant to any available legal authority. Nothing in this Order shall expand the Respondent's ability to obtain preenforcement review of U.S. EPA actions. Notwithstanding any reservation of rights, Respondent agrees to comply with the terms and conditions of this Order and consents to the jurisdiction of the U.S. EPA to enter into and enforce this Order.

30. Nothing herein is intended to release, discharge, limit or in any way affect any claim, causes of action or demands in law or equity which the parties may have against any persons, firm, trust, joint venture, partnership, corporation, or other entity not a party to this Order for any liability it may have arising out of, or relating in any way to, the generation, storage, treatment, handling, transportation, disposal, release or threat of release of any hazardous substance, hazardous waste, contaminant or pollutant at or to the site. The parties to this Order hereby expressly reserve all rights, claims, demands and causes of action they may have against any and all other persons and entities who are not parties to this Order.

31. Nothing herein shall be construed: 1) to prevent U.S. EPA from exercising its right to disapprove of work performed by the Respondent; 2) to prevent U.S. EPA from seeking legal or equitable relief to enforce the terms of this order; 3) to prevent U.S. EPA from taking other legal or equitable action not inconsistent with the Covenant Not To Sue in paragraphs 42 through 44 of this Order; 4) to prevent U.S. EPA from requiring the Respondent to perform additional activities pursuant to CERCLA, 42 U.S.C. Section 9601 et seq., or any other applicable law; or 5) to prevent U.S. EPA from undertaking response actions

at the site, and seeking to collect from Respondent in a later action all sums spent by U.S. EPA at the Site.

FORCE MAJEURE

32. The Respondent shall cause all work to be performed within the time limits set forth herein and in the approved Work Plan, unless performance is delayed by "force majeure". For purposes of this Order, "force majeure" shall mean an event arising from causes entirely beyond the control of the Respondent and their contractors which delays or prevents the performance of any obligation required by this Order. Increases in costs, financial difficulty, normal inclement weather, and delays encountered by the Respondent in securing any required permits or approvals are examples of events that are not considered to be beyond the control of the Respondent.

33. Respondent shall notify the Remedial Project Manager within 24 hours after Respondent becomes aware of any event which Respondent contends constitutes a force majeure, with subsequent written notice within seven (7) calendar days of the event. Such written notice shall describe: 1) the nature of the delay, 2) the cause of the delay, 3) the expected duration of the delay, including any demobilization and remobilization resulting from the delay, 4) the actions which will be taken to prevent or mitigate further delay, and 5) the timetable by which the actions to mitigate the delay will be taken. Respondent shall implement all reasonable measures to avoid and/or minimize such delays. Failure to comply with the notice provision of this paragraph shall be grounds for U.S. EPA to deny Respondent an extension of time for performance. The Respondent shall have the burden of demonstrating by a preponderance of the evidence that the event is a force majeure, that the delay is warranted under the circumstances, and that best efforts were exercised to avoid and mitigate the effects of the delay. If U.S. EPA determines a delay is or was attributable to a force majeure, the time period for performance under this Order shall be extended as deemed necessary by the Remedial Project Manager to allow performance.

DISPUTE RESOLUTION

34. The Parties to this Order on Consent shall attempt to resolve expeditiously and informally any disagreements concerning implementation of this Order on Consent or any Work required hereunder.

35. In the event that any dispute arising under this Order on Consent is not resolved expeditiously through informal means, any party desiring dispute resolution under this Section shall give prompt written notice to the other parties to the Order.

36. Within ten (10) days of the service of notice of dispute pursuant to Paragraph 30 above, the party who gave notice shall serve on the other parties to this Order a written statement of the issues in dispute, the relevant facts upon which the dispute

is based, and factual data, analysis or opinion supporting its position, and all supporting documentation on which such party relies (hereinafter the "Statement of Position"). The opposing parties shall serve their Statement of Position, including supporting documentation, no later than ten (10) days after receipt of the complaining party's statement of Position. In the event that these 10-day time periods for exchange of Statements of Position may cause a delay in the work, they shall be shortened upon and in accordance with notice by U.S. EPA.

37. An administrative record of any dispute under this Section shall be maintained by U.S. EPA. The record shall include the written notification of such dispute, and the Statements of Position served pursuant to the preceding paragraphs.

38. Upon review of the administrative record, the Director of the Waste Management Division, U.S. EPA, Region V, shall resolve the dispute consistent with the NCP and the terms of this Order.

NON-ADMISSION

39. The consent of the Respondent to the terms of this Order shall not constitute or be construed as an admission of liability or of U.S. EPA's findings or determinations contained in this Order in any proceeding other than a proceeding to enforce the terms of this Order.

CERCLA FUNDING

40. The Respondent waives any claims or demands for compensation or payment under Sections 106(b), 111 and 112 of CERCLA against the United States or the Hazardous Substance Response Trust Fund established by Section 221 of CERCLA for, or arising out of, any activity performed or expenses incurred pursuant to this Consent Order.

41. This Consent Order does not constitute any decision on preauthorization of funds under Section 111(a)(2) of CERCLA.

COVENANT NOT TO SUE

42. Upon termination and satisfaction of this Administrative Order pursuant to its terms, for and in consideration of the complete and timely performance by Respondent of the obligations agreed to in this Order, U.S. EPA hereby covenants not to sue Respondent for judicial imposition of damages or civil penalties for any failure to perform obligations agreed to in this Order except as otherwise reserved herein.

43. U.S. EPA recognizes that, pursuant to Section 113 of CERCLA, the Respondent, upon having resolved its liability with the U.S. EPA for the matters expressly covered by this Order, shall not be liable for claims for contribution regarding matters addressed in this Order. Nothing in this Order precludes the Respondent from asserting any claims, causes of action or demands against

potentially responsible parties (PRPs) who are not parties to this Order for indemnification, contribution, or cost recovery.

44. In consideration of the actions satisfactorily performed by the Respondent under this Order, the U.S. EPA covenants not to sue the Respondent, its successors or assigns for any and all claims which are available to the U.S. as against the Respondent under Sections 106 and 107 of CERCLA concerning all work satisfactorily performed. This covenant not to sue does not prevent U.S. EPA from requiring Respondent to perform additional activities at the Site, nor does it prevent U.S. EPA from undertaking additional activities at the Site and seeking in a later action to recover from Respondent all U.S. EPA costs incurred at the Site.

SUBSEQUENT AMENDMENT

45. This Consent Order may be amended by mutual agreement of U.S. EPA and the Respondent. Any amendment of this Consent Order shall be in writing, signed by U.S. EPA and the Respondent and shall have as the effective date, that date on which such amendment is signed by U.S. EPA.

SIGNATORIES

Each undersigned representative of a signatory to this Administrative Order on Consent certifies that he or she is fully authorized to enter into the terms and conditions of this Order and to bind such signatory, its directors, officers, employees, agents, successors and assigns, to this document.

Agreed this _____ day of _____, 1990.

By _____

The above being agreed and consented to, it is so ORDERED
this _____ day of _____, 1990.

By _____
David A. Ullrich, Director
Waste Management Division
U.S. Environmental Protection Agency
Region V, Complainant

INDEX TO ADMINISTRATIVE RECORD

1. Action Memorandum, signed by Director of Waste Management Division on October 25, 1989.
2. Action Memorandum, signed by Acting Director of Waste Management Division on March 30, 1990
3. U.S. EPA sample data file
4. Southeast Rockford Operable Unit Remedial Investigation, Technical Memorandum, prepared for IEPA, dated October 1990, including maps.
5. Sundstrand Corporation Response to U.S. EPA 104(e) information request, dated July 24, 1990.

Table 3-10
IEPA VOC Data
(All concentrations in µg/l)

Address	Street No.	Sample No.	Sampling Agency	DATE	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
4th	2819	7	IEPA	6/11/90	17.0B	24.9B	13.6B	ND	2.6B	21.0B	7.5B	2.1B	ND
4th	2828	9	IEPA	6/11/90	18.4B	28.8B	13.1B	ND	2.2B	18.4B	8.7B	2.0B	ND
4th	2901	18	IEPA	6/12/90	29.2B	61.8	22.5	0.2J	3.2B	30.7	25.3	4.1B	ND
4th	3045	70/71	IEPA	6/14/90	36.0B	2.7	1.0	ND	ND	0.2J	0.1J	9.7B	ND
5th	2624	77	IEPA	6/15/90	2.8B	1.7U	14.1	0.2J	ND	0.3J	0.3J	2.1B	ND
7th	3115	82	IEPA	6/15/90	1.1B	3.0	0.1J	ND	ND	ND	ND	1.3B	ND
7th	3233	53	IEPA	6/13/90	1.5B	3.1	ND	ND	0.3J	0.4J	0.2J	6.8B	ND
7th	3309	64	IEPA	6/14/90	ND	0.9U	ND	ND	ND	0.0J	ND	ND	ND
8th	2647	130	IEPA	6/18/90	10.0U	528.10	24.7	0.9J	5.7J	533.2	109.7	10.0U	9.1
8th	2810	58	IEPA	6/14/90	8.3	27.9	4.7	0.1J	0.3J	4.3	4.3	ND	ND
8th	2914	73	IEPA	6/14/90	ND	1.8U	ND	ND	ND	0.2J	ND	15.1B	ND
8th	3022	116	IEPA	6/17/90	ND	2.1	ND	ND	ND	0.5	ND	ND	ND
8th	3109	120	IEPA	6/18/90	1.8B	3.3	0.1J	ND	ND	0.3J	0.1J	0.3J	ND
8th	3138	118	IEPA	6/17/90	2.5B	3.9	0.2J	ND	ND	0.3J	0.2J	1.0B	ND
8th	3201	46	IEPA	6/13/90	ND	0.6U	ND	ND	ND	ND	ND	ND	ND
8th	3237	40	IEPA	6/13/90	1.0	1.5U	ND	ND	ND	0.2J	0.1J	1.8	ND
8th	3301	39	IEPA	6/13/90	0.6	1.2U	ND	ND	ND	0.1J	0.0J	0.5	ND
8th	3337	41	IEPA	6/13/90	ND	ND	ND	ND	ND	ND	ND	0.2J	ND
9th	2910	96	IEPA	6/14/90	0.4J	1.0U	0.2J	ND	ND	0.1J	ND	ND	ND
9th	3101	112	IEPA	6/18/90	2.1B	3.8	0.2J	ND	ND	0.3J	0.2J	ND	ND
9th	3210	87	IEPA	6/15/90	2.0B	3.2	0.1J	ND	ND	0.4J	0.3J	2.4B	ND
9th	3245	65	IEPA	6/14/90	ND	1.9	ND	ND	ND	0.1J	ND	ND	ND
10th	3110	56/57	IEPA	6/13/90	2.9B	5.2U	ND	ND	ND	0.2J	0.2J	ND	ND
11th	2613	127	IEPA	6/18/90	14.3B	73.3	20.5	0.2J	0.4J	13.7	7.8	ND	ND
11th	2955	4	IEPA	6/11/90	1.0	1.3U	11.2	0.1J	0.1J	0.1J	0.1J	ND	ND
11th	3015	14	IEPA	6/12/90	3.3B	6.3B	0.5U	ND	ND	0.7U	0.5J	ND	ND
11th	3119	17	IEPA	6/12/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
11th	3237	80	IEPA	6/15/90	0.9B	2.1	ND	ND	ND	ND	ND	0.7B	ND
11th	3329	79	IEPA	6/15/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
16th	3102	52	IEPA	6/13/90	3.1B	7.0	1.5B	ND	ND	1.1	1.1	0.7B	ND
16th	3122	400	IEPA	6/13/90	1.3B	2.9	ND	ND	ND	0.1J	0.2J	0.4J	ND
17th	2602	44	IEPA	6/13/90	1.1B	29.1	2.5B	ND	0.2J	2.5	1.0	0.2J	ND
17th	3120	51	IEPA	6/13/90	2.0B	2.8	ND	ND	0.1J	0.3J	0.4J	0.3J	ND
18th	3110	61	IEPA	6/13/90	ND	3.2U	ND	ND	ND	0.1J	0.2J	ND	ND
20th	2703	121	IEPA	6/18/90	ND	0.2J	0.1J	ND	0.2J	0.8	0.1J	ND	ND
20th	3109	42	IEPA	6/18/90	1.2B	1.4U	ND	ND	ND	0.1J	0.1J	0.2J	ND
Barnum	505	150	IEPA	6/20/90	0.5B	0.3J	0.1J	ND	ND	ND	ND	ND	ND
Barry	426	132	IEPA	6/18/90	427.6B	6.5	99.4	0.6	ND	0.6	0.7	0.6B	ND
Bildahl	2944	141	IEPA	6/19/90	ND	ND	0.1J	ND	ND	0.3J	ND	ND	ND
Bildahl	3017	148	IEPA	6/19/90	ND	ND	0.1J	ND	1.6	0.9	ND	ND	ND
Bildahl	3038	92	IEPA	6/15/90	1.6	2.9	0.1J	ND	ND	0.2J	0.1J	ND	ND
Bildahl	3122	109/110	IEPA	6/16/90	2.7B	4.2B	ND	ND	ND	ND	ND	ND	ND
Bildahl	3141	94	IEPA	6/15/90	2.2	3.8	0.2J	ND	ND	0.4J	0.2J	2.3B	ND
Bildahl	3206	111	IEPA	6/16/90	1.9B	2.7B	ND	ND	ND	ND	ND	2.6B	ND
Bildahl	3302	98	IEPA	6/15/90	ND	1.0U	ND	ND	ND	ND	ND	ND	ND
Bildahl	3338	99	IEPA	6/15/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Brooke	110	117	IEPA	6/18/90	125.9B	1.2U	7.4	0.1J	0.1J	1.1	0.6	4.0B	ND
Brooke	202	29	IEPA	6/12/90	ND	0.7U	ND	ND	ND	0.7U	ND	ND	ND
Brooke	326	19	IEPA	6/12/90	ND	ND	13.6	ND	ND	ND	ND	ND	ND
Brooke	409	26	IEPA	6/12/90	2.4B	3.8B	1.0U	0.1J	ND	0.6U	0.6	2.0B	ND
Brooke	823	27/28	IEPA	6/12/90	19.7B	43.0B	8.0	0.1J	1.7	12.0	5.9	ND	ND
Brooke	1101	139	IEPA	6/19/90	0.7B	2.2B	0.1J	ND	0.3J	1.1	0.1J	ND	ND
Brooke	1202	81	IEPA	6/15/90	1.6B	4.5	0.4J	ND	ND	0.7	0.4J	ND	ND
Brooke	1317	84	IEPA	6/15/90	2.3B	4.7	0.5	ND	ND	0.7	0.5J	ND	ND
Collins	2801	43	IEPA	6/13/90	2.0B	8.6B	2.1	ND	ND	2.1	1.4	0.1J	ND
Collins	3029	75	IEPA	6/14/90	0.6B	1.9U	ND	ND	ND	0.4J	0.1J	ND	ND
Collins	3109	105	IEPA	6/16/90	ND	ND	ND	ND	0.1J	0.5B	ND	ND	ND
Collins	3126	108	IEPA	6/16/90	2.0B	2.9B	ND	ND	ND	ND	ND	ND	ND
Collins	3245	60	IEPA	6/14/90	ND	1.0U	ND	ND	ND	0.1J	ND	0.5J	ND
Collins	3310	50	IEPA	6/13/90	0.9B	2.5	ND	ND	ND	0.1J	0.1J	ND	ND
Energy	123	76	IEPA	6/14/90	101.6B	15.7	11.2	ND	0.5J	2.8	3.3	24.0B	ND
Grant	3045	106	IEPA	6/16/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Grant	3107	115	IEPA	6/18/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hamilton	1630	124	IEPA	6/18/90	1.9B	3.0	0.1J	ND	ND	0.2J	0.2J	ND	ND

• ND = Not Detected, U = Not Detected in Dilution, J = Estimated Value, B = Blank Contamination

Table 3-10 cont.
IEPA VOC Data
 (All concentrations in µg/l)

Address	Street No.	Sample No.	Sampling Agency	DATE	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
Hamilton	1735	2	IEPA	6/11/90	0.8	1.3U	ND	ND	ND	0.1J	0.1J	ND	ND
Harrison	707	146/147	IEPA	6/19/90	41.4B	93.5B	42.6	0.2J	4.5J	43.7	34.9	10.4B	0.7
Harrison	1713	100	IEPA	6/15/90	3.3	33.4	5.8	0.1J	ND	8.0	1.5	0.7B	ND
Harrison	1817	126	IEPA	6/18/90	62.8B	990.8	22.2	0.1J	ND	16.5	25.4	1.0B	ND
Harrison	2315	47/48	IEPA	6/13/90	0.4J	10.5	0.4J	ND	0.1J	1.8	0.9	ND	ND
Horton	3129	88/89	IEPA	6/15/90	0.8B	1.9U	ND	ND	ND	ND	0.1J	ND	ND
Johnson	1737	3&5	IEPA	6/11/90	ND	ND	0.2J	ND	0.2J	0.0J	ND	ND	ND
Kenyon	410	149	IEPA	6/19/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Kenyon	621	140	IEPA	6/19/90	6.8B	1.3B	2.4	ND	ND	0.1J	ND	545.0	ND
Kishwaukee	3037	135	IEPA	6/19/90	13.4B	5.4B	1.3	ND	0.4J	2.0	1.4	ND	ND
Kishwaukee	3202	90	IEPA	6/15/90	ND	3.4	ND	ND	ND	ND	ND	0.4J	ND
Kishwaukee	3239	66	IEPA	6/14/90	ND	1.8U	ND	ND	0.2J	0.2J	0.1J	1.8B	ND
Kishwaukee	3302	67	IEPA	6/14/90	ND	2.5	ND	ND	ND	ND	ND	1.2B	ND
Kishwaukee	3333	131	IEPA	6/18/90	1.3B	0.9U	0.2J	ND	0.0J	1.4	0.7	ND	ND
Lapey	3013	142/143	IEPA	6/19/90	2.2B	4.3B	0.3J	ND	ND	0.5J	0.3J	0.6B	ND
Lapey	3101	104	IEPA	6/16/90	1.8B	2.8B	ND	ND	ND	ND	ND	ND	ND
Lapey	3138	103	IEPA	6/16/90	2.7B	4.0B	ND	ND	ND	0.4J	ND	ND	ND
Lapey	3213	97	IEPA	6/15/90	1.4	2.6U	0.1J	ND	ND	0.2J	ND	ND	ND
Lapey	3230	69	IEPA	6/14/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lapey	3329	72	IEPA	6/14/90	ND	0.7U	ND	ND	ND	ND	ND	ND	ND
Lindale	2406	38	IEPA	6/13/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lindale	2620	21	IEPA	6/12/90	1.1B	1.7	ND	ND	ND	ND	ND	0.9B	ND
Lindberg	2412	22	IEPA	6/12/90	1.6B	ND	ND	ND	ND	1.3	0.3J	ND	ND
Lindberg	2619	59	IEPA	6/14/90	3.2B	5.8U	1.1B	ND	0.2J	0.9	0.8	0.6B	ND
Lyran	1617	10	IEPA	6/11/90	ND	1.2U	ND	ND	ND	ND	ND	1.1B	ND
Lyran	1701	12	IEPA	6/12/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Marshall	3106	63	IEPA	6/14/90	ND	ND	ND	ND	ND	0.2J	0.1J	ND	ND
Marshall	3137	83	IEPA	6/15/90	1.8B	3.4	0.1J	ND	ND	0.3J	0.3J	ND	ND
Martin	430	54	IEPA	6/13/90	4.8B	0.9U	2.0B	ND	0.3J	0.1J	0.3J	4.7B	ND
Mattis	827	24	IEPA	6/12/90	31.9B	59.5	17.0	0.1J	2.8B	26.9	20.1	3.2B	ND
New Milford	608	138	IEPA	6/18/90	13.8B	10.0B	0.5J	ND	ND	0.6	1.2	4.6B	ND
Olsen	2820	20	IEPA	6/12/90	10.2B	ND	2.0	ND	ND	ND	ND	127.3	ND
Pershing	1637	86	IEPA	6/15/90	1.7B	3.1	0.1J	ND	ND	0.2J	0.2J	ND	ND
Pershing	1726	85	IEPA	6/15/90	2.1B	4.1	0.5J	ND	ND	0.5J	0.4J	ND	ND
Ranger	801	6	IEPA	6/12/90	21.4B	31.6B	14.4B	ND	2.8B	21.6B	11.4B	2.1B	0.1J
River Blvd.	3007	16	IEPA	6/12/90	111.4B	1.2U	13.4B	ND	ND	1.0U	0.6B	1.4B	ND
River Blvd.	3110	136	IEPA	6/19/90	ND	ND	0.2J	ND	ND	0.2J	ND	ND	ND
River Blvd.	3117	113/114	IEPA	6/17/90	ND	ND	0.3J	ND	ND	0.2J	ND	ND	ND
Rock River	508	30	IEPA	6/12/90	170.8B	12.5U	1233.0B	12.5U	12.5U	12.5U	12.5U	12.5U	113.5
Roosevelt	841	128	IEPA	6/18/90	0.9B	2.4	0.1J	ND	ND	0.3J	0.2J	2.4B	ND
Sandy Hlw	728	102	IEPA	6/16/90	ND	0.7U	ND	ND	ND	ND	ND	ND	ND
Sandy Hlw	810	125	IEPA	6/18/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sandy Hlw	1202	122	IEPA	6/18/90	ND	ND	ND	ND	ND	ND	ND	0.3J	ND
Sandy Hlw	1306	49	IEPA	6/13/90	ND	ND	ND	ND	ND	ND	ND	0.2J	ND
Sandy Hlw	1812	37	IEPA	6/13/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Saner	2905	25	IEPA	6/12/90	1.7B	1.8B	0.7U	0.1J	ND	ND	0.4J	1.0B	ND
Saner	3014	134	IEPA	6/18/90	0.7B	2.0B	0.1J	ND	ND	0.4J	0.2J	2.8B	ND
Saner	3110	78	IEPA	6/15/90	ND	1.0U	ND	ND	ND	ND	ND	ND	ND
Sawyer	319	36	IEPA	6/13/90	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sewell	2646	144	IEPA	6/19/90	0.7	39.3	0.2J	ND	ND	1.5	1.2	ND	ND
Sewell	3135.5	93	IEPA	6/15/90	ND	0.5U	ND	ND	ND	ND	ND	ND	ND
South	619	15	IEPA	6/12/90	18.2B	71.1	2.1	0.0J	ND	ND	3.2	ND	ND
Taft	804	129	IEPA	6/18/90	ND	1.4	ND	ND	ND	0.1J	ND	1.1B	ND

• ND = Not Detected, U = Not Detected in Dilution, J = Estimated Value, B = Blank Contamination

Table 3-11
USEPA VOC Data
(All concentrations in µg/l)

Address	Street No.	Sampling Agency	Sample No.	DATE 1989	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,1-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
9th	3021	USEPA	S80	10/5/89	ND	3.0J	NA	NA	ND	ND	ND	ND	ND
9th	3226	USEPA	S81	10/5/89	0.6	2.0	ND	ND	ND	ND	NA	NA	NA
9th	3329	USEPA	S82	10/5/89	ND	0.6	ND	ND	ND	ND	NA	NA	NA
10th	2730	USEPA	S9	10/26/89	28.0	142.0	29.6	ND	ND	31.3	NA	NA	NA
10th	3141	USEPA	S69	10/5/89	2.0	4.3	ND	ND	ND	ND	NA	NA	NA
11th	2718	USEPA	S14	10/26/89	34.8	167.0	42.9	ND	ND	40.4	NA	NA	NA
11th	2822	USEPA	S15	10/26/89	9.9	54.5	7.2	ND	ND	8.3	NA	NA	NA
11th	2826	USEPA	S68	10/5/89	27.2	68.4	21.3	ND	ND	22.0	NA	NA	NA
11th	2902	USEPA	S72	10/5/89	10.5	35.2	5.2	ND	ND	4.8	NA	NA	NA
11th	2929	USEPA	S75	10/5/89	3.4	13.2	2.4	ND	ND	2.0	NA	NA	NA
17th	3118	USEPA	S13	10/3/89	1.3	2.5	ND	ND	ND	ND	NA	NA	NA
18th	2701	USEPA	S16	10/26/89	1.4	7.6	5.2	ND	ND	10.1	NA	NA	NA
18th	3025	USEPA	S12	10/3/89	2.7	9.3	3.3	ND	ND	1.8	NA	NA	NA
19th	3112	USEPA	S10	10/3/89	0.8	1.1	ND	ND	ND	ND	NA	NA	NA
20th	2814	USEPA	S11	10/3/89	120.0	283.0	138.0	2.5	4.0	133.0	NA	NA	NA
20th	2917	USEPA	S100	10/24/89	16.3	88.4	29.8	ND	ND	18.2	NA	NA	NA
20th	3015	USEPA	S102	10/24/89	2.2	11.3	2.5	ND	ND	ND	NA	NA	NA
20th	3141	USEPA	S9	10/3/89	ND	ND	ND	ND	ND	ND	NA	NA	NA
21st	2816	USEPA	S95	10/24/89	68.4	297.0	96.4	1.2	1.5	81.9	NA	NA	NA
21st	2825	USEPA	S97	10/24/89	73.8	306.0	95.0	ND	ND	64.3	NA	NA	NA
21st	2922	USEPA	S6	10/3/89	31.7	151.0	94.6	ND	2.0	40.7	NA	NA	NA
22nd	2826	USEPA	S5	10/3/89	67.1	227.0	NA	NA	4.0J	109.0	43.2	6.7	ND
22nd	2901	USEPA	S98	10/24/89	56.2	235.0	37.8	ND	ND	33.9	NA	NA	NA
22nd	2923	USEPA	S94	10/24/89	17.0	75.7	42.3	ND	0.6	25.6	NA	NA	NA
23rd	2817	USEPA	S93	10/24/89	91.3	384.0	113.0	1.2	2.1	76.1	NA	NA	NA
23rd	2830	USEPA	S92	10/24/89	68.7	261.0	95.2	0.9	1.4	61.2	NA	NA	NA
23rd	2911	USEPA	S91	10/24/89	65.6	343.0	273.0	1.3	2.9	103.0	NA	NA	NA
24th	2827	USEPA	S88	10/24/89	104.0	245.0	NA	NA	2.2J	85.3	42.7	6.6	ND
24th	2917	USEPA	S89	10/24/89	79.3	397.0	323.0	1.6	2.8	117.0	NA	NA	NA
24th	2935	USEPA	S90	10/24/89	17.4	122.0	93.9	ND	1.0	41.7	NA	NA	NA
Alton	1621	USEPA	S73	10/5/89	32.7	162.0	NA	NA	1.8J	57.0	27.6	ND	ND
Bildahl	2717	USEPA	S18	10/24/89	25.1	132.0	27.5	ND	ND	29.8	NA	NA	NA
Brooke	220	USEPA	S20	12/8/89	ND	ND	ND	ND	ND	ND	NA	NA	NA
Cannon	2637	USEPA	S17	10/26/89	2.2	39.6	3.8	ND	ND	6.8	NA	NA	NA
Cannon	2729	USEPA	S105	10/24/89	44.0	168.0	NA	NA	1.5J	71.2	29.5	ND	ND
Cannon	2741	USEPA	S104	10/24/89	36.8	158.0	40.4	ND	1.1	320.0	47.8	1.3J	ND
Cannon	2741	USEPA	S10	8/9/89	36.8	158.0	40.4	ND	1.1	320.0	47.8	1.3J	ND
Cannon	2822	USEPA	S52	10/4/89	24.6	140.0	42.0	ND	0.8	47.9	NA	NA	NA
Cannon	2837	USEPA	S51	10/4/89	37.0	88.3	24.1	ND	0.5	23.8	NA	NA	NA
Cannon	2904	USEPA	S54	10/4/89	15.5	35.6	NA	NA	ND	12.4	7.7	ND	ND
Cannon	2934	USEPA	S55	10/4/89	9.4	33.5	5.4	ND	ND	4.2	NA	NA	NA
Cannon	3008	USEPA	S56	10/4/89	3.3	13.2	3.1	ND	ND	2.2	NA	NA	NA
Carlson	3007	USEPA	S22	12/8/89	1.4	ND	1.9	ND	ND	ND	NA	NA	NA
Carlson	3113	USEPA	S21	12/8/89	21.9	0.6	1.9	ND	ND	ND	NA	NA	NA
Hamilton	1724	USEPA	S47	10/3/89	ND	2.1J	NA	NA	ND	ND	ND	ND	NA
Hanson	2737	USEPA	S106	10/24/89	24.8	109.0	26.3	ND	ND	24.9	NA	NA	NA
Hanson	2745	USEPA	S4	10/3/89	41.8	172.0	42.6	ND	1.9	49.1	NA	NA	NA
Hanson	2804	USEPA	S61	10/5/89	19.1	201.0	47.5	0.6	1.0	43.8	NA	NA	NA
Hanson	2833	USEPA	S60	10/5/89	23.9	52.8	17.6	ND	ND	17.8	NA	NA	NA
Hanson	2846	USEPA	S59	10/5/89	28.3	75.0	20.8	ND	ND	18.8	NA	NA	NA
Hanson	2913	USEPA	S58	10/5/89	10.6	28.3	5.3	ND	ND	4.4	NA	NA	NA
Hanson	2930	USEPA	S3	10/3/89	6.0	18.5	3.1	ND	ND	2.7	NA	NA	NA
Hanson	2941	USEPA	S15	10/3/89	26.4	57.4	19.7	ND	1.3	22.0	NA	NA	NA
Hanson	3000	USEPA	S57	10/5/89	2.8	11.2	2.5	ND	ND	1.8	NA	NA	NA
Horton	2725	USEPA	S22	10/3/89	11.4	45.4	39.6	ND	1.4	57.8	NA	NA	NA
Horton	2806	USEPA	S21	10/3/89	40.0	197.0	50.6	0.8	2.8	42.4	NA	NA	NA
Horton	2806	USEPA	S20	10/3/89	52.4	255.0	66.1	0.8	2.9	55.3	NA	NA	NA
Horton	2817	USEPA	S19	10/3/89	67.8	305.0	65.5	0.7	2.4	58.8	NA	NA	NA

• ND = Not Detected, NA = Not Analyzed, J = Estimated Value

Table 3-11 cont.
USEPA VOC Data
 (All concentrations in µg/l)

Address	Street No.	Sampling Agency	Sample No.	DATE 1989	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
Horton	2833	USEPA	S18	10/3/89	59.4	142.0	NA	NA	1.3J	47.0	28.6	2.6J	ND
Horton	2904	USEPA	S16	10/3/89	25.0	60.0	19.0	ND	1.3	21.3	NA	NA	NA
Horton	2914	USEPA	S17	10/3/89	44.0	147.0	40.3	ND	1.6	40.0	NA	NA	NA
Horton	2921	USEPA	S101	10/24/89	22.9	75.5	19.8	ND	ND	15.6	NA	NA	NA
Johnson	1625	USEPA	S48	10/4/89	ND	ND	ND	ND	ND	ND	NA	NA	NA
Kinsey	2614	USEPA	S71	10/5/89	1.2	16.7	3.4	ND	ND	9.9	NA	NA	NA
Kinsey	2712	USEPA	S67	10/5/89	33.4	156.0	39.7	ND	1.5	38.0	NA	NA	NA
Kinsey	2733	USEPA	S11	8/9/89	31.8	NA	NA	NA	NA	213.0	27.5	0.7J	ND
Kinsey	2815	USEPA	S66	10/5/89	33.7	133.0	27.7	ND	0.6	33.8	NA	NA	NA
Kinsey	2833	USEPA	S65	10/5/89	17.8	62.9	11.9	ND	ND	10.9	NA	NA	NA
Kinsey	2901	USEPA	S64	10/5/89	5.6	18.1	2.6	ND	ND	2.6	NA	NA	NA
Kinsey	2917	USEPA	S63	10/5/89	1.9	7.3	0.9	ND	ND	0.9	NA	NA	NA
Kinsey	2946	USEPA	S62	10/5/89	2.7	5.4	1.9	ND	ND	1.5	NA	NA	NA
Lapey	2706	USEPA	S10	10/26/89	58.9	143.0	NA	NA	1.9J	56.6	31.0	ND	ND
Lapey	2734	USEPA	S11	10/26/89	17.4	21.0	23.5	ND	ND	27.1	NA	NA	NA
Lapey	2746	USEPA	S86	10/5/89	29.9	158.0	29.2	ND	0.8	32.2	NA	NA	NA
Lapey	2746	USEPA	S87	10/5/89	30.0	160.0	28.4	ND	0.8	32.6	NA	NA	NA
Lapey	2814	USEPA	S12	10/26/89	16.3	65.4	14.0	ND	ND	14.2	NA	NA	NA
Lapey	2825	USEPA	S85	10/5/89	18.1	136.0	NA	NA	ND	1.9J	8.6	ND	ND
Lapey	2845	USEPA	S74	10/5/89	13.3	47.3	7.4	ND	ND	7.0	NA	NA	NA
Lapey	2911	USEPA	S76	10/5/89	3.6	14.2	2.1	ND	ND	1.9	NA	NA	NA
Lapey	3002	USEPA	S77	10/5/89	2.3	7.4	0.6	ND	ND	0.7	NA	NA	NA
Lapey	3031	USEPA	S79	10/5/89	1.4	4.8	ND	ND	ND	ND	NA	NA	NA
Lapey	3305	USEPA	S83	10/5/89	ND	ND	ND	ND	ND	ND	NA	NA	NA
Lindale	2512	USEPA	S7	10/3/89	0.9	1.3	ND	ND	ND	ND	NA	NA	NA
Lindberg	2518	USEPA	S8	10/3/89	3.1	7.7	1.9	ND	ND	1.2	NA	NA	NA
Marshall	2706	USEPA	S34	10/4/89	11.3	54.8	26.8	ND	1.0	39.9	NA	NA	NA
Marshall	2717	USEPA	S33	10/4/89	1.1	16.0	5.6	ND	ND	17.9	NA	NA	NA
Marshall	2738	USEPA	S32	10/4/89	65.6	329.0	93.0	1.1	2.5	75.3	NA	NA	NA
Marshall	2801	USEPA	S31	10/4/89	62.4	310.0	74.7	0.8	2.0	61.2	NA	NA	NA
Marshall	2837	USEPA	S30	10/4/89	39.4	156.0	40.2	ND	1.4	40.8	NA	NA	NA
Marshall	2905	USEPA	S29	10/4/89	38.3	113.0	31.5	ND	0.9	26.0	NA	NA	NA
Marshall	2925	USEPA	S103	10/24/89	19.1	44.4	14.4	ND	ND	12.5	NA	NA	NA
Marshall	2941	USEPA	S28	10/4/89	10.5	30.3	6.8	ND	ND	5.0	NA	NA	NA
Marshall	3006	USEPA	S27	10/4/89	10.6	13.5	7.6	ND	1.3	12.5	NA	NA	NA
Marshall	3030	USEPA	S26	10/4/89	5.9	3.1	3.8	ND	2.0	9.1	NA	NA	NA
Marshall	3111	USEPA	S25	10/4/89	1.4	2.6	ND	ND	ND	ND	NA	NA	NA
Marshall	3133	USEPA	S24	10/4/89	1.8	3.2	ND	ND	ND	ND	NA	NA	NA
New Milford	606	USEPA	S25	12/8/89	21.7	37.2	0.7	ND	ND	0.9	NA	NA	NA
Potter	3318	USEPA	S45	10/4/89	ND	ND	ND	ND	ND	ND	NA	NA	NA
Ranger	823	USEPA	S24	12/8/89	17.5	41.3	12.9	ND	1.9	16.3	NA	NA	NA
Sandy Hlw	2106	USEPA	S84	10/5/89	ND	ND	ND	ND	ND	ND	NA	NA	NA
Sewell	2702	USEPA	S1	10/3/89	1.5	15.6	4.7	ND	ND	14.7	NA	NA	NA
Sewell	2722	USEPA	S44	10/4/89	2.9	27.5	11.5	ND	ND	29.9	NA	NA	NA
Sewell	2742	USEPA	S43	10/4/89	0.5	5.8	0.6	ND	ND	0.8	NA	NA	NA
Sewell	2806	USEPA	S41	10/4/89	40.5	222.0	NA	NA	1.6J	47.3	26.0	2.3J	ND
Sewell	2813	USEPA	S42	10/4/89	38.8	227.0	41.4	ND	1.7	44.0	NA	NA	NA
Sewell	2841	USEPA	S40	10/4/89	24.2	106.0	35.3	ND	1.1	36.7	NA	NA	NA
Sewell	2922	USEPA	S2	10/3/89	18.6	49.5	14.1	ND	ND	11.8	NA	NA	NA
Sewell	3002	USEPA	S39	10/4/89	9.5	26.4	5.9	ND	ND	4.1	NA	NA	NA
Sewell	3032	USEPA	S38	10/4/89	2.6	9.0	2.1	ND	ND	1.4	NA	NA	NA
Sewell	3131	USEPA	S37	10/4/89	ND	ND	ND	ND	ND	ND	NA	NA	NA
Sewell	3141	USEPA	S36	10/4/89	ND	ND	ND	ND	ND	ND	NA	NA	NA

• ND = Not Detected, NA = Not Analyzed, J = Estimated Value

Table 3-12
IDPH VOC Data
(All concentrations in µg/l)

Address	Street No.	Sampling Agency	DATE	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
7th	3133	IDPH	12/4/89	0.6	1.7	ND	ND	ND	ND	ND	0.2	ND
7th	3209	IDPH	12/4/89	0.9	2.9	ND	ND	ND	ND	ND	3.3	ND
7th	3217	IDPH	12/4/89	0.2	1.2	ND	ND	ND	ND	ND	0.9	ND
7th	3241	IDPH	12/4/89	ND	0.4	ND	ND	ND	ND	ND	0.7	ND
7th	3317	IDPH	12/8/89	0.9	2.0	ND	ND	ND	ND	ND	Trace	ND
8th	2810	IDPH	12/8/89	5.6	ND	ND	Trace	22.5	Trace	2.8	Trace	ND
8th	2922	IDPH	9/19/89	1.0	9.3	ND	ND	ND	ND	ND	ND	ND
8th	2929	IDPH	12/5/89	2.6	2.9	ND	ND	ND	Trace	ND	Trace	ND
8th	2940	IDPH	9/19/89	2.0	8.5	ND	ND	ND	ND	ND	ND	ND
8th	3219	IDPH	8/9/88	2.8	4.8	ND	ND	ND	ND	0.1	14.0	ND
8th	3330	IDPH	12/12/89	ND	ND	ND	ND	1.3	ND	ND	ND	ND
9th	2726	IDPH	9/19/89	44.2	217.0	ND	ND	ND	24.2	1.3	ND	ND
9th	2905	IDPH	10/25/89	3.2	7.9	ND	ND	ND	ND	0.6	<1	ND
9th	3018	IDPH	12/8/89	ND	ND	ND	ND	0.6	ND	ND	Trace	ND
9th	3110	IDPH	11/7/89	1.7	3.0	ND	ND	ND	ND	ND	ND	ND
9th	3121	IDPH	11/7/89	2.0	3.0	ND	ND	ND	ND	ND	0.4	ND
9th	3125	IDPH	12/14/89	1.5	ND	ND	ND	2.4	ND	ND	Trace	ND
9th	3137	IDPH	12/4/89	1.4	ND	ND	ND	3.9	ND	ND	1.0	ND
9th	3214	IDPH	12/5/89	1.7	2.6	ND	ND	ND	Trace	ND	Trace	ND
9th	3238	IDPH	12/12/89	ND	ND	ND	ND	1.7	ND	ND	Trace	ND
9th	3242	IDPH	12/5/89	0.6	1.8	ND	ND	ND	ND	ND	Trace	ND
9th	3321	IDPH	12/12/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
9th	3326	IDPH	12/12/89	ND	ND	ND	ND	ND	ND	ND	Trace	ND
10th	3125	IDPH	12/4/89	ND	2.8	ND	ND	ND	ND	ND	ND	ND
10th	3142	IDPH	12/4/89	2.1	2.8	ND	ND	ND	ND	ND	1.5	ND
10th	3201	IDPH	12/5/89	2.1	3.4	ND	ND	ND	Trace	Trace	Trace	ND
10th	3209	IDPH	12/12/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
10th	3210	IDPH	12/12/89	1.5	2.6	ND	ND	ND	Trace	Trace	Trace	ND
10th	3221	IDPH	8/9/88	ND	1.7	ND	ND	ND	ND	ND	0.7	ND
10th	3236	IDPH	12/12/89	0.9	1.7	ND	ND	ND	Trace	ND	Trace	ND
10th	3245	IDPH	12/5/89	0.6	1.6	ND	ND	ND	ND	ND	Trace	ND
11th	2706	IDPH	9/12/89	65.7	352.6	ND	11.6	ND	40.6	50.4	1.6	ND
11th	2707	IDPH	12/12/89	1.6	5.9	ND	Trace	0.5	Trace	2.5	Trace	ND
11th	2734	IDPH	12/12/89	55.4	152.8	ND	Trace	1.6	Trace	30.0	Trace	ND
11th	2744	IDPH	12/12/89	57.7	158.8	ND	Trace	1.6	Trace	30.0	Trace	ND
11th	2826	IDPH	8/9/88	ND	ND	ND	ND	ND	ND	ND	ND	ND
11th	2834	IDPH	12/12/89	18.6	41.7	ND	ND	0.5	Trace	ND	Trace	ND
11th	2837	IDPH	12/12/89	17.0	37.0	ND	Trace	ND	Trace	4.8	Trace	ND
11th	2842	IDPH	12/12/89	14.8	29.8	ND	Trace	ND	Trace	3.6	Trace	ND
11th	2901	IDPH	12/12/89	9.3	23.9	ND	ND	Trace	Trace	Trace	Trace	ND
11th	2926	IDPH	12/12/89	4.4	10.5	ND	Trace	ND	Trace	1.0	Trace	ND
11th	2942	IDPH	12/12/89	3.6	9.7	ND	Trace	ND	Trace	1.0	ND	ND
11th	3132	IDPH	12/12/89	2.1	3.2	ND	ND	ND	Trace	ND	Trace	ND
16th	3146	IDPH	11/28/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
17th	3012	IDPH	12/5/89	5.0	21.8	ND	Trace	ND	Trace	2.4	Trace	ND
17th	3110	IDPH	11/6/89	1.0	1.9	ND	ND	ND	ND	ND	Trace	ND
17th	3120	IDPH	8/21/89	1.5	2.7	ND	ND	ND	ND	0.3	ND	ND
17th	3141	IDPH	11/6/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
18th	2601	IDPH	10/25/89	1.0	29.4	ND	ND	ND	1.8	1.8	<1	ND
18th	2603	IDPH	10/25/89	1.3	38.9	ND	ND	ND	3.2	ND	<1	ND
18th	2604	IDPH	10/25/89	ND	<1	ND	ND	ND	ND	ND	ND	ND
18th	2606	IDPH	10/25/89	<1	ND	ND	ND	ND	1.8	ND	ND	ND
18th	3007	IDPH	11/7/89	17.8	49.4	ND	ND	ND	11.0	4.7	4.5	ND
18th	3035	IDPH	11/6/89	2.7	8.8	ND	ND	ND	Trace	Trace	Trace	ND
18th	3110	IDPH	12/11/89	ND	2.2	ND	ND	ND	ND	ND	ND	ND
18th	3117	IDPH	11/28/89	0.7	1.3	ND	ND	ND	ND	ND	ND	ND
18th	3146	IDPH	8/21/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
19th	2908	IDPH	9/19/89	45.3	192.4	ND	ND	ND	13.7	1.3	ND	ND

• ND = Not Detected

Table 3-12 cont.
IDPH VOC Data

(All concentrations in µg/l)

Address	Street No.	Sampling Agency	DATE	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
19th	3019	IDPH	11/28/89	2.0	4.5	ND	ND	ND	ND	ND	0.6	ND
19th	3101	IDPH	11/28/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
19th	3114	IDPH	11/28/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
19th	3117	IDPH	11/6/89	1.4	2.5	ND	ND	ND	ND	ND	Trace	ND
19th	3120	IDPH	11/28/89	0.5	ND	ND	ND	ND	ND	ND	ND	ND
19th	3121	IDPH	11/28/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
19th	3129	IDPH	8/21/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
20th	2814	IDPH	9/26/89	121.7	57.5	ND	ND	ND	46.8	<1	15.1	ND
20th	2822	IDPH	9/26/89	112.5	436.0	ND	ND	ND	19.5	4.0	1.9	ND
20th	2913	IDPH	9/26/89	44.0	204.8	ND	ND	ND	19.2	2.2	6.5	ND
20th	2923	IDPH	9/26/89	8.2	83.1	ND	ND	ND	3.1	<1	3.8	ND
20th	2930	IDPH	9/26/89	21.5	164.8	ND	ND	ND	8.0	1.4	1.5	ND
20th	3024	IDPH	11/28/89	0.9	0.6	ND	ND	ND	ND	ND	ND	ND
20th	3025	IDPH	11/6/89	4.1	18.0	ND	ND	0.4	2.4	ND	2.1	ND
20th	3025	IDPH	11/28/89	4.3	15.4	ND	ND	ND	2.8	ND	1.8	ND
20th	3110	IDPH	12/4/89	2.9	2.3	ND	ND	ND	ND	ND	ND	ND
20th	3141	IDPH	8/21/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
21st	2923	IDPH	9/26/89	31.4	89.3	ND	ND	ND	2.3	1.3	6.8	ND
21st	2944	IDPH	9/26/89	19.9	95.3	ND	ND	ND	6.7	<1	5.8	ND
23rd	2912	IDPH	9/26/89	97.1	436.0	ND	ND	ND	34.4	3.1	4.3	ND
23rd	2927	IDPH	9/26/89	9.0	68.1	ND	ND	ND	5.5	<1	ND	ND
23rd	2929	IDPH	10/17/89	4.7	32.4	ND	ND	ND	14.8	4.7	ND	ND
23rd	2931	IDPH	9/26/89	7.0	82.2	ND	ND	ND	6.0	<1	ND	ND
23rd	3115	IDPH	11/7/89	ND	ND	ND	ND	ND	ND	ND	Trace	ND
Alton	2118	IDPH	10/25/89	2.7	20.4	ND	ND	ND	6.4	0.7	1.3	ND
Bildahl	3029	IDPH	12/4/89	0.3	ND	ND	ND	ND	ND	ND	ND	ND
Bildahl	3221	IDPH	12/4/89	1.3	1.3	ND	ND	ND	ND	ND	ND	ND
Bildahl	3237	IDPH	12/4/89	0.8	1.0	ND	ND	ND	0.5	ND	ND	ND
Bildahl	3242	IDPH	1/10/89	2.0	2.5	ND	ND	ND	ND	ND	<1	ND
Bildahl	3318	IDPH	12/12/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bildahl	3324	IDPH	12/12/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Brooke	1004	IDPH	12/5/89	0.5	1.9	ND	ND	ND	Trace	ND	Trace	ND
Brooke	1113	IDPH	12/5/89	0.8	2.6	ND	ND	ND	ND	ND	ND	ND
Brooke	1317	IDPH	12/4/89	1.0	3.2	ND	ND	ND	ND	ND	ND	ND
Cannon	2741	IDPH	8/9/88	140.0	140.0	ND	ND	ND	13.0	2.0	4.8	ND
Cannon	2801	IDPH	10/17/89	30.5	97.5	ND	ND	ND	28.5	11.4	1.1	ND
Cannon	2802	IDPH	9/12/89	52.7	200.0	ND	ND	9.0	39.2	51.1	6.6	ND
Cannon	2810	IDPH	9/12/89	60.6	283.2	ND	ND	7.2	36.9	41.8	5.3	ND
Cannon	2817	IDPH	9/12/89	20.7	83.5	ND	ND	ND	24.0	24.7	0.8	ND
Cannon	2826	IDPH	8/21/89	31.0	177.0	23.0	ND	1.8	34.0	25.0	1.2	ND
Cannon	2837	IDPH	10/17/89	47.1	89.1	ND	ND	ND	16.3	9.4	0.7	ND
Cannon	2842	IDPH	9/8/88	40.0	86.0	ND	ND	ND	11.0	1.2	0.9	ND
Cannon	2904	IDPH	9/8/88	6.4	56.0	ND	ND	ND	2.0	1.4	0.2	ND
Cannon	2915	IDPH	10/17/89	14.3	49.4	ND	ND	ND	5.8	3.4	0.5	ND
Cannon	2918	IDPH	11/7/89	16.2	38.8	ND	ND	ND	4.8	ND	ND	ND
Cannon	3004	IDPH	11/28/89	6.3	14.7	ND	ND	ND	1.5	ND	ND	ND
Collins	3201	IDPH	12/4/89	2.8	4.7	ND	ND	ND	ND	ND	4.8	ND
Collins	3202	IDPH	12/4/89	1.1	3.7	ND	ND	ND	ND	ND	6.5	ND
Collins	3230	IDPH	12/4/89	0.4	1.3	ND	ND	ND	ND	ND	1.5	ND
Collins	3234	IDPH	12/4/89	0.6	ND	ND	ND	ND	ND	ND	0.8	ND
Collins	3310	IDPH	12/5/89	0.9	2.2	ND	ND	ND	Trace	ND	Trace	ND
Collins	3317	IDPH	12/12/89	1.1	2.7	ND	Trace	ND	ND	ND	Trace	ND
Hamilton	1709	IDPH	11/6/89	0.6	1.6	ND	ND	ND	ND	ND	Trace	ND
Hamilton	1717	IDPH	11/6/89	1.0	1.8	ND	ND	ND	ND	ND	Trace	ND
Hanson	2633	IDPH	9/12/89	2.7	13.9	ND	ND	ND	ND	14.0	0.9	ND
Hanson	2714	IDPH	10/17/89	28.3	141.0	ND	ND	ND	65.4	17.2	0.3	ND
Hanson	2802	IDPH	9/12/89	68.5	287.5	ND	ND	8.4	39.6	48.0	3.3	ND
Hanson	2804	IDPH	9/13/88	68.0	98.0	ND	ND	ND	25.0	3.8	3.2	ND

• ND = Not Detected

Table 3-12 cont.
IDPH VOC Data
 (All concentrations in µg/l)

Address	Street No.	Sampling Agency	DATE	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
Hanson	2804	IDPH	6/20/89	73.4	204.0	ND	ND	0.9	ND	52.2	3.3	ND
Hanson	2821	IDPH	9/12/89	40.0	200.0	ND	ND	ND	28.2	32.3	1.6	ND
Hanson	2834	IDPH	9/19/89	29.6	105.8	ND	ND	ND	10.2	0.7	ND	ND
Hanson	2842	IDPH	9/19/89	32.6	101.0	ND	ND	ND	10.9	2.9	ND	ND
Hanson	2901	IDPH	9/26/89	20.3	49.3	ND	ND	ND	5.4	<1	<1	ND
Hanson	2902	IDPH	9/26/89	27.5	97.6	ND	ND	ND	9.0	1.0	1.0	ND
Hanson	2906	IDPH	1/10/89	23.0	31.0	ND	1.0	ND	ND	ND	ND	ND
Hanson	2907	IDPH	10/17/89	14.3	49.7	ND	ND	ND	5.8	3.7	0.4	ND
Hanson	2911	IDPH	10/17/89	13.3	32.1	ND	ND	ND	4.7	2.7	0.4	ND
Hanson	2938	IDPH	11/6/89	6.2	16.7	ND	ND	ND	1.8	ND	ND	ND
Hanson	2946	IDPH	10/17/89	14.8	13.4	ND	ND	ND	14.4	6.1	0.2	ND
Harrison	2313	IDPH	12/12/89	ND	12.3	ND	ND	ND	ND	0.7	Trace	ND
Horton	2717	IDPH	10/17/89	1.7	16.0	ND	ND	ND	28.3	3.6	0.5	ND
Horton	2726	IDPH	9/12/89	2.7	78.6	ND	ND	5.6	22.8	24.8	ND	ND
Horton	2738	IDPH	9/19/89	92.8	411.6	ND	ND	ND	36.5	2.4	ND	ND
Horton	2741	IDPH	9/12/89	68.1	100.0	ND	ND	11.6	48.1	60.2	8.6	ND
Horton	2742	IDPH	9/12/89	75.8	434.3	108.4	ND	13.2	50.5	63.4	4.3	ND
Horton	2746	IDPH	9/12/89	64.3	400.0	ND	ND	13.6	50.6	62.6	2.6	ND
Horton	2805	IDPH	9/19/89	43.1	218.4	ND	ND	ND	23.9	1.5	ND	ND
Horton	2811	IDPH	10/17/89	47.6	249.0	ND	ND	ND	62.3	26.2	3.8	ND
Horton	2818	IDPH	9/12/89	57.6	205.1	ND	ND	7.4	35.6	29.5	3.2	ND
Horton	2834	IDPH	9/19/89	54.1	228.0	ND	ND	ND	27.5	2.8	ND	ND
Horton	2835	IDPH	9/19/89	26.9	197.3	ND	ND	ND	13.3	1.0	ND	ND
Horton	2838	IDPH	9/19/89	51.9	218.8	ND	ND	ND	22.2	1.3	ND	ND
Horton	2905	IDPH	10/17/89	51.6	133.0	ND	ND	ND	44.8	9.4	1.2	ND
Horton	2922	IDPH	8/8/88	51.0	110.0	ND	ND	ND	11.0	1.3	2.0	ND
Horton	2924	IDPH	10/25/89	8.5	26.5	ND	ND	ND	ND	3.2	<1	ND
Horton	2926	IDPH	8/9/88	12.0	23.0	ND	ND	ND	9.1	1.1	2.7	ND
Horton	2942	IDPH	10/17/89	12.6	13.7	ND	ND	ND	7.5	4.2	0.4	ND
Horton	3001	IDPH	11/28/89	8.7	30.1	ND	ND	ND	4.4	ND	1.8	ND
Horton	3006	IDPH	8/9/88	2.7	1.8	ND	ND	1.7	ND	ND	2.6	ND
Horton	3037	IDPH	11/28/89	0.9	1.1	ND	ND	ND	ND	ND	ND	ND
Horton	3133	IDPH	11/7/89	1.5	2.6	ND	ND	ND	ND	ND	ND	ND
Johnson	1613	IDPH	12/5/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Johnson	1631	IDPH	12/4/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Johnson	1637	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Johnson	1638	IDPH	12/5/89	ND	ND	ND	ND	ND	ND	ND	Trace	ND
Johnson	1641	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Johnson	1642	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Johnson	1711	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Johnson	1726	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Johnson	1746	IDPH	12/5/89	ND	ND	ND	ND	ND	ND	ND	Trace	ND
Kinsey	2726	IDPH	6/20/89	63.8	161.0	ND	ND	1.0	ND	53.9	1.8	ND
Kinsey	2803	IDPH	9/12/89	24.1	219.0	ND	ND	5.2	30.9	34.3	1.5	ND
Kinsey	2806	IDPH	10/17/89	50.8	197.0	ND	ND	ND	50.2	23.5	1.3	ND
Kinsey	2813	IDPH	9/19/89	20.4	193.2	ND	ND	ND	15.1	0.9	ND	ND
Kinsey	2822	IDPH	9/19/89	28.2	182.6	ND	ND	ND	13.8	0.8	ND	ND
Kinsey	2826	IDPH	10/25/89	58.9	193.8	ND	ND	ND	ND	51.9	3.5	ND
Kinsey	2829	IDPH	10/17/89	15.1	94.3	ND	ND	ND	14.7	8.3	0.2	ND
Kinsey	2829	IDPH	1/10/89	35.0	37.0	ND	3.0	ND	ND	ND	ND	ND
Kinsey	2833	IDPH	9/19/89	20.9	81.0	ND	ND	ND	12.6	0.8	ND	ND
Kinsey	2909	IDPH	6/20/89	7.0	13.9	ND	ND	0.2	ND	3.5	0.2	ND
Kinsey	2920	IDPH	10/17/89	7.5	29.1	ND	ND	ND	3.9	2.3	0.2	ND
Kinsey	2929	IDPH	12/4/89	5.0	11.4	2.9	ND	ND	2.1	ND	ND	ND
Kinsey	3002	IDPH	11/7/89	2.8	10.6	ND	ND	ND	ND	0.9	ND	ND
Lapey	2746	IDPH	9/26/89	50.0	224.2	ND	ND	ND	25.2	2.7	4.1	ND
Lapey	2817	IDPH	9/12/89	21.0	114.2	ND	ND	2.9	17.5	23.6	ND	ND
Lapey	2838	IDPH	9/19/89	17.5	50.6	ND	ND	ND	6.5	0.5	ND	ND

• ND = Not Detected

Table 3-12 cont.
IDPH VOC Data
 (All concentrations in µg/l)

Address	Street No.	Sampling Agency	DATE	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
Lapey	2918	IDPH	9/26/89	<1	1.5	ND	ND	ND	ND	ND	ND	ND
Lapey	3038	IDPH	12/12/89	1.7	3.0	ND	ND	ND	Trace	ND	Trace	ND
Lapey	3116	IDPH	1/7/89	1.3	3.0	ND	ND	ND	ND	ND	ND	ND
Lapey	3117	IDPH	11/7/89	1.8	2.7	ND	ND	ND	ND	ND	ND	ND
Lapey	3121	IDPH	11/7/89	1.9	2.7	ND	ND	ND	ND	ND	ND	ND
Lapey	3125	IDPH	11/7/89	2.1	3.8	ND	ND	ND	ND	ND	ND	ND
Lapey	3130	IDPH	11/7/89	2.0	4.5	ND	ND	ND	ND	ND	ND	ND
Lapey	3205	IDPH	12/12/89	1.6	2.7	ND	ND	ND	ND	ND	Trace	ND
Lapey	3230	IDPH	12/12/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lapey	3245	IDPH	12/4/89	ND	0.7	ND	ND	ND	ND	ND	ND	ND
Lindale	2412	IDPH	6/20/89	0.7	1.5	ND	ND	ND	ND	ND	0.3	ND
Lindale	2424	IDPH	6/20/89	1.3	2.2	ND	ND	ND	ND	ND	1.0	ND
Lindale	2612	IDPH	11/6/89	1.3	1.7	ND	ND	ND	ND	ND	Trace	ND
Lindberg	2402	IDPH	11/28/89	0.6	ND	ND	ND	ND	ND	ND	ND	ND
Lindberg	2407	IDPH	11/6/89	1.6	0.6	ND	ND	ND	Trace	ND	Trace	ND
Lindberg	2413	IDPH	8/9/88	1.1	2.1	ND	ND	ND	ND	ND	ND	ND
Lindberg	2421	IDPH	8/9/88	0.7	ND	ND	ND	ND	ND	ND	ND	ND
Lindberg	2501	IDPH	11/28/89	1.4	0.8	ND	ND	ND	ND	ND	ND	ND
Lindberg	2506	IDPH	1/28/89	2.9	6.0	ND	ND	ND	ND	ND	0.8	ND
Lindberg	2512	IDPH	12/5/89	2.9	5.5	ND	Trace	ND	Trace	0.8	Trace	ND
Lindberg	2515	IDPH	11/6/89	2.2	3.7	ND	ND	ND	ND	0.6	Trace	ND
Lindberg	2518	IDPH	11/6/89	4.2	11.2	ND	ND	ND	ND	1.2	Trace	ND
Lindberg	2618	IDPH	8/9/88	6.1	16.0	ND	ND	ND	1.0	0.4	2.9	ND
Lyran	1645	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lyran	1650	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lyran	1714	IDPH	12/11/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lyran	1738	IDPH	12/5/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Marshall	2641	IDPH	11/7/89	7.7	157.0	ND	ND	ND	13.4	ND	1.4	ND
Marshall	2721	IDPH	12/4/89	1.8	18.1	13.5	ND	ND	31.6	4.6	ND	ND
Marshall	2722	IDPH	9/12/89	4.1	54.0	ND	ND	ND	12.4	13.3	<1	ND
Marshall	2730	IDPH	12/4/89	23.7	108.0	64.5	ND	ND	77.9	28.6	ND	ND
Marshall	2734	IDPH	11/28/89	37.5	170.5	50.6	ND	ND	80.9	19.2	ND	ND
Marshall	2737	IDPH	11/28/89	ND	1.8	ND	ND	ND	ND	ND	0.5	ND
Marshall	2745	IDPH	10/17/89	82.9	295.0	ND	ND	ND	67.6	30.0	3.9	ND
Marshall	2813	IDPH	8/21/89	35.0	154.0	26.0	ND	3.1	34.0	38.0	1.7	ND
Marshall	2813	IDPH	12/12/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Marshall	2825	IDPH	9/19/89	58.2	246.0	ND	ND	ND	30.0	1.6	ND	ND
Marshall	2830	IDPH	9/19/89	40.1	208.4	ND	ND	ND	18.7	1.1	ND	ND
Marshall	2838	IDPH	8/21/89	44.0	187.0	27.0	1.1	2.9	39.0	36.0	ND	ND
Marshall	2845	IDPH	10/17/89	47.9	93.6	ND	ND	ND	26.9	11.9	0.9	ND
Marshall	2909	IDPH	9/19/89	32.6	98.1	ND	ND	ND	8.8	1.2	ND	ND
Marshall	2926	IDPH	2/7/89	57.0	24.0	ND	2.0	ND	ND	ND	ND	ND
Marshall	2937	IDPH	10/17/89	5.2	7.0	ND	ND	ND	6.5	2.3	ND	ND
Marshall	2946	IDPH	10/17/89	5.0	13.8	ND	ND	ND	1.8	1.1	0.2	ND
Marshall	3018	IDPH	10/25/89	4.0	13.1	ND	ND	ND	3.1	1.4	1.6	ND
Marshall	3038	IDPH	10/25/89	2.3	0.5	ND	ND	ND	3.7	0.1	ND	ND
Marshall	3101	IDPH	2/7/89	2.0	<1	ND	ND	ND	ND	ND	ND	ND
Marshall	3138	IDPH	12/12/89	1.7	2.6	ND	ND	ND	ND	ND	Trace	ND
Pershing	1637	IDPH	11/6/89	2.1	4.1	ND	ND	ND	ND	ND	ND	ND
Pershing	1802	IDPH	12/14/89	2.4	ND	ND	Trace	1.2	Trace	1.3	ND	ND
Potter	2700	IDPH	9/12/89	23.4	111.8	ND	6.7	ND	25.2	32.2	2.2	ND
Potter	2825	IDPH	9/19/89	40.8	192.5	ND	ND	ND	15.8	0.9	ND	ND
Potter	2826	IDPH	10/25/89	27.5	93.1	ND	ND	ND	10.2	9.1	<1	ND
Potter	2837	IDPH	8/21/89	24.0	113.0	18.0	ND	1.4	25.0	20.0	1.2	ND
Potter	2933	IDPH	11/28/89	12.0	29.8	ND	ND	0.3	2.9	ND	0.6	ND
Reed	1825	IDPH	10/25/89	35.0	92.1	ND	ND	ND	14.4	8.5	0.5	ND
Reed	1930	IDPH	10/25/89	46.6	93.0	ND	ND	ND	46.3	12.8	1.5	ND
Sandy Hlw	1734	IDPH	12/5/89	ND	ND	ND	ND	ND	Trace	ND	ND	ND

• ND = Not Detected

Table 3-12 cont.
IDPH VOC Data

(All concentrations in µg/l)

Address	Street No.	Sampling Agency	DATE	TCE	1,1,1-TCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCA	1,1-DCA	1,1-DCE	PCE	Vinyl Chloride
Sandy Hlw	1810	IDPH	12/5/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sandy Hlw	1812	IDPH	12/5/89	ND	ND	ND	ND	ND	ND	ND	Trace	ND
Sandy Hlw	1816	IDPH	12/14/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sewell	2718	IDPH	10/25/89	1.8	ND	ND	ND	15.6	27.2	3.2	0.6	ND
Sewell	2722	IDPH	8/9/88	0.5	3.2	ND	ND	ND	0.2	ND	ND	ND
Sewell	2814	IDPH	9/12/89	73.7	90.0	ND	ND	9.1	55.6	51.0	5.0	ND
Sewell	2822	IDPH	9/12/89	73.2	210.0	ND	2.2	9.2	54.2	49.0	6.7	ND
Sewell	2826	IDPH	9/19/89	47.9	215.0	ND	ND	ND	18.8	1.1	ND	ND
Sewell	2902	IDPH	6/20/89	21.8	38.9	ND	ND	ND	ND	10.9	0.3	ND
Sewell	2909	IDPH	9/26/89	25.1	88.9	ND	ND	ND	6.7	ND	1.1	ND
Sewell	2909	IDPH	2/7/89	22.0	36.0	ND	2.0	ND	ND	ND	1.0	ND
Sewell	2917	IDPH	9/26/89	28.1	38.6	ND	ND	ND	4.9	<1	ND	ND
Sewell	2921	IDPH	9/26/89	19.5	107.3	ND	ND	ND	4.4	<1	1.0	ND
Sewell	2930	IDPH	9/26/89	19.8	111.2	ND	ND	ND	4.6	<1	1.4	ND
Sewell	2930	IDPH	8/21/89	13.0	28.0	6.9	1.1	0.7	7.3	5.9	1.0	ND
Sewell	2934	IDPH	12/25/89	17.8	48.0	ND	ND	ND	7.3	3.2	1.5	ND
Sewell	3016	IDPH	10/25/89	ND	<1	ND	ND	ND	ND	ND	ND	ND
Sewell	3026	IDPH	10/25/89	9.9	7.7	ND	ND	ND	19.0	4.4	<1	ND
Sewell	3040	IDPH	10/25/89	3.4	8.6	ND	ND	ND	1.5	0.9	0.9	ND
Sewell	3133	IDPH	12/4/89	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sewell	3136	IDPH	11/7/89	2.3	3.9	ND	ND	ND	ND	ND	ND	ND
Sewell	3138	IDPH	11/7/89	2.1	3.4	ND	ND	ND	ND	ND	<1	ND
Sewell	3142	IDPH	11/7/89	1.8	3.0	ND	ND	ND	ND	ND	ND	ND
Wills	1201	IDPH	9/12/89	<1	1.5	ND	ND	ND	ND	ND	<1	ND
Wills	1610	IDPH	10/25/89	37.5	133.0	ND	ND	ND	33.6	12.8	0.9	ND
Wills	1703	IDPH	11/7/89	73.9	220.0	ND	ND	ND	37.0	42.8	1.7	ND
Wills	1920	IDPH	9/12/89	50.0	260.0	ND	ND	9.8	39.7	49.2	4.3	ND
Wills	1935	IDPH	8/21/89	45.0	210.0	42.0	1.1	3.4	55.0	30.0	2.1	ND

• ND = Not Detected